2N3819

SILICON N-CHANNEL JFET



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The CENTRAL SEMICONDUCTOR 2N3819 is a silicon N-Channel JFET designed for RF amplifier and mixer applications.



MARKING: FULL PART NUMBER

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Drain-Gate Voltage	V_{DG}	25	V
Drain-Source Voltage	V_{DS}	25	V
Gate-Source Voltage	V_{GS}	25	V
Continuous Gate Current	I_{G}	10	mA
Power Dissipation	P_{D}	360	mW
Operating and Storage Junction Temperature	T_J , T_{sta}	-65 to +150	°C

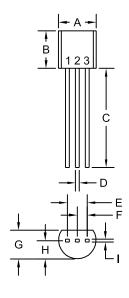
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ELECTRICAL CHARACTERISTICS: (T _A =25°C unless otherwise noted)							
I _{GSS}	TEST CONDITIONS V _{GS} =15V	MIN	MAX 2.0	UNITS nA			
I _{GSS}	V _{GS} =15V, T _A =100°C		2.0	μΑ			
I _{DSS}	V _{DS} =15V	2.0	20	mA			
BV_{GSS}	I _G =1.0μA	25		V			
V _{GS(OFF)}	V_{DS} =15V, I_{D} =2.0nA		8.0	V			
V_{GS}	V_{DS} =15V, I_{D} =200 μ A	0.5	7.5	V			
Y _{fs}	V_{DS} =15V, V_{GS} =0, f=1.0MHz	2.0	6.5	mS			
Y _{fs}	V_{DS} =15V, V_{GS} =0, f=100MHz	1.6		mS			
Y _{os}	V_{DS} =15V, V_{GS} =0, f=1.0kHz		50	μS			
C _{iss}	V_{DS} =15V, V_{GS} =0, f=1.0MHz		8.0	pF			
C _{rss}	V_{DS} =15V, V_{GS} =0, f=1.0MHz		4.0	pF			

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TO-92 CASE - MECHANICAL OUTLINE



DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
A (DIA)	0.175	0.205	4.45	5.21			
В	0.170	0.210	4.32	5.33			
С	0.500	-	12.70	-			
D	0.016	0.022	0.41	0.56			
E	0.100		2.54				
F	0.050		1.27				
G	0.125	0.165	3.18	4.19			
Η	0.080	0.105	2.03	2.67			
	0.015		0.	38			

TO-92 (REV: R1)

LEAD CODE:

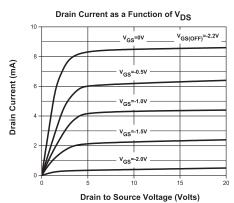
- 1) Drain
- 2) Gate
- 3) Source

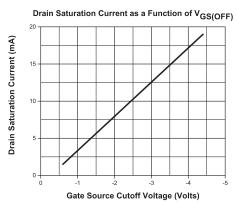
MARKING:

FULL PART NUMBER

TYPICAL ELECTRICAL CHARACTERISTICS

R1



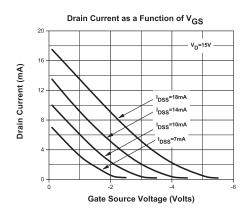


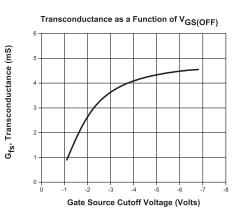
R1 (9-January 2014)

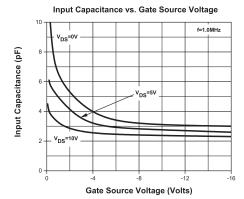
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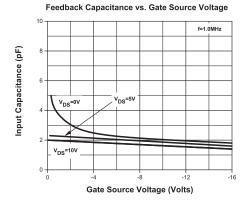
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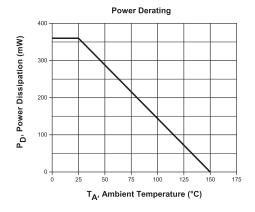












R1 (9-January 2014)

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- · Inventory bonding
- · Consolidated shipping options

- · Custom bar coding for shipments
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Central's applications engineering team is ready to discuss your design challenges. Just ask.

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- Environmental regulation compliance
- · Customer specific screening
- · Up-screening capabilities

- · Special wafer diffusions
- · PbSn plating options
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- · Application notes
- · Application and design sample kits
- · Custom product and package development

CONTACT US

Corporate Headquarters & Customer Support Team

Central Semiconductor Corp. 145 Adams Avenue Hauppauge, NY 11788 USA Main Tel: (631) 435-1110

Main Fax: (631) 435-1824

Support Team Fax: (631) 435-3388 www.centralsemi.com

Worldwide Field Representatives: www.centralsemi.com/wwreps

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